WCU5102

# High-Gain 802.11b/g Wireless USB Adapter with Rotatable Connector Design

The **WCU5102** enables you to connect your desktop computer or laptop easily to any 802.11b/g network via a USB connection. With a clever USB connector design, which allows you to swivel and rotate to almost any angle plus the Hi-Gain antenna technology, the **WCU5102** not only provides a highly concentrative capability to have a wireless connection of quality but also extends the wireless connection distance up to three times further! A compact base stand goes with the Wireless LAN USB Adapter is a convenient option for the desktop use. What's even more marvelous is the built-in LED signal strength indicator, which pinpoints the strongest signal available within your wireless LAN! The **WCU5102**, a small and compact wireless device, is definitely the best choice to carry around for enabling the wireless environment!

## FEATURES

- Works with both IEEE 802.11b and 802.11g (both at 2.4 GHz) for compatibility & mobility
- Up to 54Mbps wireless data transfer rate
- Support USB 2.0
- Ad-Hoc or Infrastructure mode
- Soft AP feature creates AP (Access Point) function
- Supports Turbo Mode to enhance the data transfer speed within the specific wireless network
- Supports WMM function to meet the multi-media data bandwidth requirement
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x) functions for high level of security

**LED Indicator**

- Link: Blue
- Active: Orange
- Signal Strength:
  (Weak) 1.Red 2.Orange 3.Yellew 4.Bule 5.Bule (Better)

**Power Requirement**

- TX consumption: 390mA (Typical) at 5V
- RX consumption: 220mA (Typical) at 5V
- Standby consumption: 95mA(Typical) at 5V

**Physical specification**

- Weight: 35g
- Dimension: 110mm (L) × 34mm (W) × 11mm (H)

**Supported OS**

- Windows 98SE/Me/2000/XP

**EMI Certification**

- FCC Part 15.247 in US
- EN300328 and EN301489-17 in Europe

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## SPECIFICATION

| | |
|---|---|
| **Standard** | IEEE 802.11g and 802.11b |
| **Host Interface** | USB 2.0 |
| **USB Connector Type** | Swivel-and-rotate USB2.0 connector |
| **Antenna Connector** | Integral patch antenna |
| **Frequency Range** | 2.400GHz ~ 2.4835GHz |
| **Operating Frequency / Channel** | 2.412~2.462GHz (Canada, FCC) / 11 Channels<br>2.412~2.484GHz (Japan, TELEC) / 14 Channels<br>2.412~2.472GHz (Euro, ETSI) / 13 Channels |
| **Modulation Technique** | Orthogonal frequency division multiplexing (OFDM)<br>Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK) |
| **Security** | 64/128bit WEP<br>WPA<br>WPA2<br>802.1x and 802.11i |
| **Media Access Protocol** | CSMA/CA (Collision Avoidance) with ACK |
| **Transmit power** | 18dBm ± 2dBm |
| **Data Rate** | 802.11g - 54, 48, 36, 24, 18, 12, 9 and 6Mbps with auto-rate fall back<br>802.11b - 11, 5.5, 2, and 1Mbps with auto-rate fall back |
| **Sensitivity** | 54Mbps: -69dBm<br>11Mbps: -85dBm |
| **Working Mode** | Ad-Hoc<br>Infrastructure |
| **Power Consumption** | Continuous transmission mode: 390mA at 5VDC (Typical)<br>Continuous Reception mode: 220mA at 5VDC (Typical) |
| **Operation Temperature** | Operating Temperature: 0~55℃ ambient temperature<br>Storage Temperature: -20~70℃ ambient temperature |
| **Humidity** | Operating humidity: 90% maximum (non-condensing)<br>Storage humidity: 90% maximum (non-condensing) |
| **Regulatory Approval** | FCC, CE |
| **Dimensions** | 110mm (L) × 34mm (W) × 11mm (H) |
| **LED Indicator** | Link: Blue ACTIVE: Orange<br>Signal strength:<br>(Weak) 1.Red 2.Orange 3.Yellow 4.Blue 5.bule (Better) |
| **OS Support** | Windows 98SE/Me/2000/XP |
| **Throughput** | 22Mbps@ 54Mbps<br>5.5Mbps@ 11Mbps |

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